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IS 6723 (1972): Recommendations for aircraft instrument dials and pointers [TED 14: Aircraft and Space Vehicles]

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Bhartṛhari—Nītiśatakam
“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

RECOMMENDATIONS FOR AIRCRAFT INSTRUMENT DIALS AND POINTERS

1. Scope — General recommendations for the design and layout of new aircraft instrument dials and new ranges of existing instrument dials.

2. General

2.1 Figures and scale marks shall be restricted to the minimum compatible with the accuracy of reading actually required. Unnecessary fine scale divisions shall be avoided.

2.2 In order to reduce the number of figures, multiples of units shall be used provided both the unit and the multiple are stated on the dial, for example, MN/m² × 1 000 (*see* Fig. 1).

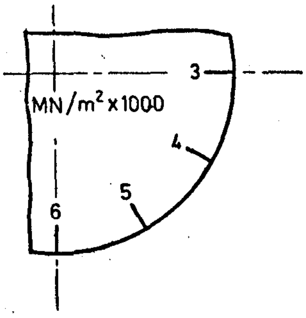

FIG. 1

2.3 Luminizing or fluorescent treatment shall be kept to the minimum compatible with ease of reading.

2.4 The use of continuous scale of more than 360° with a single pointer shall be avoided as far as possible, as they are very confusing to read under difficult reading conditions.

2.5 Pointers, if luminized or treated with fluorescent compound, shall have such treatment covering the whole indicating length.

2.6 Scales shall be concentric with the centre of rotation of the pointer.

3. Scale Markings

3.1 The space between the scale markings which are not more than 6 mm apart shall not be divided (except where the reading of the instrument is more intensive, for example, in certain engine and navigation instruments) since visual interpolation of the pointer position is more accurate than reading the position of the pointer relative to a number of finely divided scale markings (*see* Fig. 2).

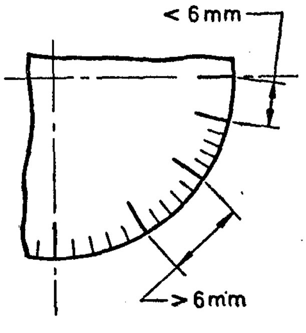

FIG. 2

Aircraft and Space Vehicles Sectional Committee, EDC 74 [Ref : Doc : EDC 74 (1977)]

Adopted 30 November 1972

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3.2 The division of the space between two consecutive major scale marks shall be such that the length of a minor scale mark is nearly equal to the average distance (*l*) between the minor scale marks (*see* Fig. 3).

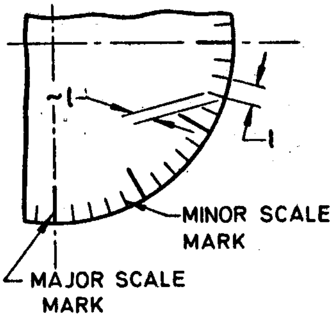

FIG. 3

3.3 The ratio of the longest and the shortest intervals between two consecutive major scale marks shall not exceed 2 (*see* Fig. 4).

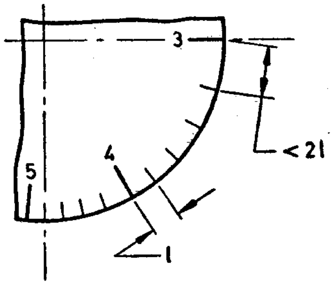

FIG. 4

3.4 When the space between the major scale marks is divided into ten divisions, the fifth division shall be indicated by an intermediate mark having a length of a major scale mark and the width of minor scale mark (*see* Fig. 5).

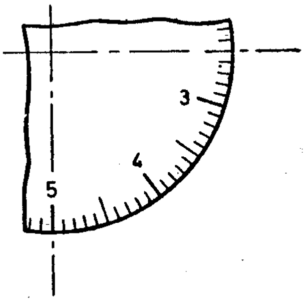

FIG. 5

This standard conforms to ISO/R 268-1962.

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